

For reasying Office use only	
,	
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application"	

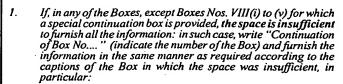
REQUEST			
KEQ CEST	International Filing Da	te	
The undersigned requests that the present			
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Offi	ice and "PCT Inte	mational Application"
according to the ratent cooperation reaty.	Ivaile of feceiving Offi	ice and 1 CT lines	national Application
·	Applicant's or agent's (if desired) (12 characte	file reference ers maximum) 01	6417-0309083
Box No. I TITLE OF INVENTION HOMOGENEOUS AND HETEROGENEOUS ASSAY METHODS CHEMISTRIES FOR THE RAPID MEASUREMENT OF PHOSPH			
Box No. II APPLICANT This person	n is also inventor		
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residen	he address indicated in this	Telephone No. (858) 450-	7820
CHROMAGEN, INC.		Facsimile No.	
10449 ROSELLE STREET		(858) 558-	7166
SAN DIEGO, CALIFORNIA 92121 UNITED STATES OF AMERICA		Teleprinter No.	
UNITED STATES OF AMERICA		Applicant's regis	stration No. with the Office
State (that is, country) of nationality: US	State (that is, country)	of residence:	
	1 States except	the United States of America only	the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	IER) INVENTOR(S)		
Name and address: (Family name followed by given name; for a legal entitle address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence BHATT, RAM S. 3575 SANTORO WAY SAN DIEGO, CALIFORNIA 92130 UNITED STATES OF AMERICA	ne address indicated in this	inventor marked,	nt only It and inventor If only (If this check-box is do not fill in below.) Stration No. with the Office
State (that is, country) of nationality:	State (that is, country)	of residence:	
This person is applicant.	US		
for the purposes of: States the United States	ates of America	the United States of America only	the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated or	n a continuation sheet.		191
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR	CORRESPOND	ENCE
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities a	n behalf as:	agent	common representative
Name and address: (Family name followed by given name; for a legal entir. The address must include postal code and name of co		Telephone No. 858.509.40	95
BIGGS, SUZANNE L.	*	Facsimile No.	
PILLSBURY WINTHROP, LLP		858.509.40	010
11682 EL CAMINO REAL, SUITE 200		Teleprinter No.	
CARMEL VALLEY, CALIFORNIA		•	
92130-1593		Agent's registrat	ion No. with the Office
UNITED STATES OF AMERICA		30,158	
Address for correspondence: Mark this check-box where n space above is used instead to indicate a special address to w	no agent or common rep	resentative is/has lould be sent.	been appointed and the

Sheet	Nο		2	

Continuation of Box No. 111 FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should not be included in the request. Name and address: (Family name followed by given name; for a legal entity, full official designation. This person is:					
The address must include postal code and name of country. The country of a Box is the applicant's State (that is, country) of residence if no State of residen	applicant only				
MILLER-WING, ALLISON V.	. • •	applicant and inventor			
1913 EASTPOINTE AVENUE CARLSBAD, CALIFORNIA 92008		inventor only (If this check-box			
UNITED STATES OF AMERICA		is marked, do not fill in below.)			
		Applicant's registration No. with the Office			
State (that is, country) of nationality: US	State (that is, country US	y) of residence:			
This person is applicant for the purposes of: all designated the United S all designated the United S	d States except tates of America	the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of the	he address indicated in this	This person is:			
Box is the applicant's State (that is, country) of residence if no State of residen HELMS, REBECCA	ce is indicated below.)	applicant only			
8324 REGENTS ROAD, APT # 1-I		applicant and inventor			
SAN DIEGO, CALIFORNIA 92122	4	inventor only (If this check-box is marked, do not fill in below.)			
UNITED STATES OF AMERICA		Applicant's registration No. with the Office			
State (that is, country) of nationality: US	State (that is, country, US) of residence:			
This person is applicant all designated all designated for the purposes of:		the United States of America only the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of the	e address indicated in this	This person is:			
Box is the applicant's State (that is, country) of residence if no State of residence GESSERT, STEVE	ce is indicated below.)	applicant only			
7023 WHIPPLE AVENUE		X applicant and inventor			
SAN DIEGO, CALIFORNIA 92122		inventor only (If this check-box is marked, do not fill in below.)			
UNITED STATES OF AMERICA	:	Applicant's registration No. with the Office			
See all					
State (that is, country) of nationality: US	State (that is, country) US	of residence:			
This person is applicant for the purposes of: all designated States all designated the United States		the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	e address indicated in this	This person is:			
GONZALES, FRANK	·	applicant and inventor			
3269 VILLANOVA AVENUE	7.71	inventor only (If this check-box			
SAN DIEGO, CALIFORNIA 92122 UNITED STATES OF AMERICA		is marked, do not fill in below.)			
ONITED STATES OF AMIERICA		Applicant's registration No. with the Office			
State (that is, country) of nationality: US	State (that is, country)	of residence:			
This person is applicant all designated states all designated the United States		he United States the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on another continuation sheet.					



If the Supplemental Box is not used, this sheet should not be included in the request.



- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. II" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor:
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- 2. If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such a case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition" or "utility certificate of addition," the number of the parent application or parent patent or other parent grant and the date of grant of the parent patent or other patent grant or the date of filing of the parent application (Rules 4.11(a)(iii) and 49bis.1(a) or (b)).
- 3. If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such a case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(iv) and 49bis.1(d)).

CONTINUATION OF BOX NO. III

This person is:

Applicant /Inventor

CONRAD, MICHAEL J. 1465 VIA VALENTE ESCONDIDO, CALIFORNIA 92029 UNITED STATES OF AMERICA

Nationality: US Residence: US

This person is Applicant for the purpose of: the United States only

Sheet	Nic	4	
SHEEL	INU.	 	

Box No. V DESIGNATIONS						
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.						
However,			••			
DE Germany is not	designated for any kind of nat	ional protection				
KR Republic of Kor	ea is not designated for any ki	ind of national protection		•		
RU Russian Federat	ion is not designated for any k	cind of national protection		-		
the national law, of an earl	ny be used to exclude (irrevocab lier national application from w ns in these and certain other S	vhich priority is claimed. S	ned in order to avoid the see the Notes to Box No. I	ceasing of the effect, under as to the consequences of		
Box No. VI PRIORIT	Y CLAIM	•				
The priority of the following	ng earlier application(s) is here	by claimed:				
Filing date of earlier application	Number of earlier application	,	Where earlier application	is:		
(day/month/year)	or carner application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office		
item (1) 1 April 2003 (1-04-2003)	60/459,886	US				
item (2)						
item (3)						
Further priority claims	are indicated in the Suppleme	ental Box.				
The receiving Office is requ the earlier application was j above as:	ested to prepare and transmit to filed with the Office which for to	o the International Bureau he purposes of this internat	a certified copy of the ear	rlier application(s) (only if ecciving Office) identified		
all items	tem (1) item (2) item (3)	other, se	ee Supplemental Box		
* Where the earlier applicat Industrial Property or one N	ion is an ARIPO application, in 1ember of the World Trade Or	ndicate at least one country ganization for which that e	party to the Paris Conve	ntion for the Protection of led (Rule 4.10(b)(ii))		
Box No. VII INTERNA	ΓΙΟΝAL SEARCHING AUT	HORITY		••		
international search, indicate	arching Authority (ISA) (if no the Authority chosen; the two	-letter code may be used):				
ISA / .US		•				
International Searching Auth		•		t by or requested from the		
Date (day/month/year)	Numb	er Count	ry (or regional Office)			
Box No. VIII DECLARATIONS						
The following declarations check-boxes below and indice	are contained in Boxes Nos. Vate in the right column the num	VIII (i) to (v) (mark the ap ber of each type of declara	plicable tion):	Number of declarations		
Box No. VIII (i)	. Declaration as to the identity	y of the inventor		:		
Box No. VIII (ii)	Declaration as to the applic date, to apply for and be gra		international filing			
Box No. VIII (iii)	Declaration as to the applic date, to claim the priority of		e international filing	:		
Box No. VIII (iv)	Declaration of inventorship United States of America)	-	the designation of the	: 2		
Box No. VIII (v)	Declaration as to non-prejud	dicial disclosures or excep	otions to lack of novelty	.: . ·		

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No.VIII (iv). If this Box is not used, this sheet should not be included in the request.

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

I hereby declare that I believe I am the original, first and sole (if only is listed below) inventor of the subject matter which is claimed and	y one inventor is listed below) or joint (if more than one inventor for which a patent is sought.
This declaration is directed to the international application of which	it forms a part (if filing declaration with application).
This declaration is directed to international application No. PCT/ to Rule $26ter$).	(if furnishing declaration pursuant
I hereby declare that my residence, mailing address, and citizenship	are as stated next to my name.
I hereby state that I have reviewed and understand the contents of the of said application. I have identified in the request of said application and I have identified below, under the heading "Prior Applications," Organization, day, month and year of filing, any application for a pate States of America, including any PCT international application design having a filing date before that of the application on which foreign processing that the same of the application on which foreign processing that the same of the application on which foreign processing the same of the application on which foreign processing the same of the application of the application of the same of th	, in compliance with PCT Rule 4.10, any claim to foreign priority, by application number, country or Member of the World Trade ent or inventor's certificate filed in a country other than the United nating at least one country other than the United States of America.
Prior Applications:	
l hereby acknowledge the duty to disclose information that is 37 C.F.R. § 1.56, including for continuation-in-part applications, mat of the prior application and the PCT international filing date of the	erial information which became available between the filing date
I hereby declare that all statements made herein of my own knowledg are believed to be true; and further that these statements were made made are punishable by fine or imprisonment, or both, under Section false statements may jeopardize the validity of the application or any	with the knowledge that willful false statements and the like so 1001 of Title 18 of the United States Code and that such willful
Name: Ram S. BHATT	
Con Diogo Colifornio	
Mailing Address: . 3575 Santoro Way, San Diego, California	a.92130 UNITED STATES OF AMERICA
·	
Citizenship: UNITED STATES OF AMERICA	
Inventor's Signature:	Date:
Name: Allison V. MILLER-WING	
Carlahad California	
Mailing Address: 1913 Eastpointe Avenue, Carlsbad, Califo	ornia 92008 UNITED STATES OF AMERICA
Citizenship: UNITED STATES OF AMERICA	
nventor's Signature:	Date:
•	

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

Sheet	No	6			
SHOOL	110.	~			

Continuation of Box No. VIII (i) to (v) DECLARATION

If the space is insufficient in any of Boxes Nos. VIII (i) to (v) to furnish all the information, including in the case where more than two inventors are to be named in Box No. VIII (iv), in such case, write "Continuation of Box No. VIII..." (indicate the item number of the Box) and furnish the information in the same manner as required for the purposes of the Box in which the space was insufficient. If additional space is needed in respect of two or more declarations, a separate continuation box must be used for each such declaration. If this Box is not used, this sheet should not be included in the request.

CONTINUATION OF BOX NO. VIII (iv)	
Rebecca HELMS	,
San Diego, California	
8324 Regents Road, Apt # 1-I, San Diego, California 921 Citizenship: UNITED STATES OF AMERICA	22 UNITED STATES OF AMERICA
Inventor's Signature:	Date:
Steven GESSERT	
San Diego, California	
7023 Whipple Avenue, San Diego, California 92122 UNIT Citizenship:UNITED STATES OF AMERICA	FED STATES OF AMERICA
Inventor's Signature:	Date:
Frank GONZALES	
San Diego, California	•
3269 Villanova Avenue, San Diego, California 92122 UNI Citizenship:UNITED STATES OF AMERICA	TED STATES OF AMERICA
Inventor's Signature:	Date:
Michael J. CONRAD	·
Escondido, California	
1465 Via Valente, Escondido, California 92029 UNITED S Citizenship:UNITED STATES OF AMERICA	STATES OF AMERICA
Inventor's Signature:	Date:
	• (1)

		7
Sheet	Nο	,

Box No. IX CHECK LIST; LANGUAGE OF FILING						
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items				
request (including	1. fee calculation sheet	: .				
declaration sheets) : 7	2. original separate power of attorney	:				
description (excluding sequence listing and/or	3. original general power of attorney	:				
tables related thereto) : 67	4. copy of general power of attorney; reference number,					
claims : 19	if any:					
abstract : 1	5. statement explaining lack of signature	:				
drawings : 31	6. priority document(s) identified in Box No. VI as item(s):	:				
Sub-total number of sheets : 125 sequence listing :	7. translation of international application into (language):	:				
tables related thereto : (for both, actual number of	separate indications concerning deposited microorganism or other biological material	:				
sheets if filed in paper form, whether or not also filed in	9. sequence listing in computer readable form (indicate type and number of carriers)					
computer readable form; see (c) below)	(i) copy submitted for the purposes of international search under Rule 1 3 <i>ter</i> only (and not as part of the international application	· :):				
Total number of sheets : 125 (b) □ only in computer readable form	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	· }				
(Section 801(a)(i)) (i) sequence listing	(iii) dispersion to the identity of the copy of	; r				
(ii) ☐ tables related thereto (c) ☐ also in computer readable form	copies with the sequence listing mentioned in left column 10. tables in computer readable form related to sequence listing	:				
(Section 801(a)(ii)) (j) sequence listing	(indicate type and number of carriers) (i) □ copy submitted for the purposes of international search under	:				
(ii) tables related thereto	Section 802(b-quater) only (and not as part of the international application)	:				
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	 (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) 	:				
sequence listing:	(iii) together with relevant statement as to the identity of the copy of	r				
tables related thereto:	copies with the tables mentioned in left column 11. other (specify): RETURN POSTCARD	:				
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	The Guilet (specify). MRT 8.047. 8.07. 8.00.	•				
Figure of the drawings which	Language of filing of the					
should accompany the abstract: FIG. 3A	international application:					
Box No. X SIGNATURE OF APPLICANT Next to each signature, indicate the name of the person sign	, AGENT OR COMMON REPRESENTATIVE ing and the capacity in which the person signs (if such capacity is not obvious from reading	the request).				
273						
SUZANNE L. BIGGS						
Reg. No. 30,158						
;						
·						
	For receiving Office use only					
Date of actual receipt of the purported	2. Draw	ings:				
international application:		eived:				
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
Date of timely receipt of the required corrections under PCT Article 11(2):	not	received:				
5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid						
	For International Bureau use only					
Date of receipt of the record copy by the International Bureau:						
	•					

This sheet is not part of and does not count as a sheet of the international application.

For receiving Office use only

	Annex to the		International Application No.	
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	plicant's or agent's reference	016417-0309083	Date stamp of the receiving Office	
	plicant HROMAGEN, INC.			
CA	LCULATION OF PRESCRIBE	D FEES]
1	TRANSMITTAL FEE		300.00 T	
2.	SEARCH FEE International search to be carried (If two or more International Sea international search, indicate the	out by US arching Authorities are competent to the analysis of the Authority which is ch	to carry out the	
	the international search.)			
ı	INTERNATIONAL FILING FEE	. ,		
		No. IX apply, enter Sub-total num o. IX do not apply, enter Total num		
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1	400	x =	i3	
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	Add amounts entered at i1, i2 and	i3 and enter total at I	2,274.00 1	
i	nternational filing fee. Where th	re entitled to a reduction of 75% he applicant is (or all applicants I is 25% of the international filing	are) so	
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4. I	FEE FOR PRIORITY DOCUMEN	(I (if applicable)		
-			3,594.00	
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F	anounts efficied at 1, 5, 1 and	, and enter total in the TOTAL bo	ν _Λ <u> </u>	
МО	DE OF PAYMENT			
X	authorization to charge deposit account (see below)	postal money order	cash coupons	
	cheque	bank draft	revenue stamps	cify):
	<u> </u>	OR CREDIT) DEPOSIT ACCOU	UNT	-
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X	Authorization to charge the total for	ses indicated above)-2212
_	9	v if the conditions for deposit account	Date: 1 APRIL 2004	-
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	Authorization to charge the fee for		Signature:	
		(P) ()		